

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 2004/002270

A. CLASSIFICATION OF SUBJECT MATTER IPC ⁷ : F16H 61/12, F02D 45/00. According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC ⁷ : F16H, F02D, E16H, G05B, G01K, G01M, G06F. Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched --- Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, EPODOC, PAJ.		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 830 106 A (ABE M. et al.) 3 November 1998 (03.11.1998) <i>abstract, figures 1, 4-5, 7-14, column 2, line 16 to column 3, line 64.</i> --	1-3, 5-10
A	JP 2004 011869 A (NISSAN MOTOR CO LTD) 15 January 2004 (15.01.2004) <i>abstract, figures 1-4.</i> --	4-5, 7-10
A	JP 2003 294128 A (JATCO LTD) 15 October 2003 (15.10.2003) <i>abstract, figures 1-2.</i> --	1, 5-10
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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Date of the actual completion of the international search 20 December 2004 (20.12.2004)		Date of mailing of the international search report 5 January 2005 (05.01.2005)
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 2004/002270

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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A	US 5 848 381 A (ISHII, S. et al.) 8 December 1998 (08.12.1998) <i>abstract, figures 1-3, 5.</i>	1-3, 5-10
A	-- US 5 995 887 A (HATHAWAY, R. R. et al.) 30 November 1999 (30.11.1999) <i>abstract, figures 1-3.</i>	2, 4-5, 7-10
A	-- KR 2003 0040600 A (HYUNDAI MOTOR COMPANY) 23 May 2003 (23.05.2003) <i>abstract, figure from abstract.</i>	4-5, 7-10

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 2004/002270

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JP	A	20040118 69A2		none			
KR	A	20030040 600		none			
US	A	5830106	1998-11-03	JP	A	9329222	1997-12-22
				JP	A	9329221	1997-12-22
				DE	A	19724651	1997-12-18
US	A	5846381	1998-12-08	JP	A	10111182	1998-04-28
US	A	5955887	1999-11-30	none			